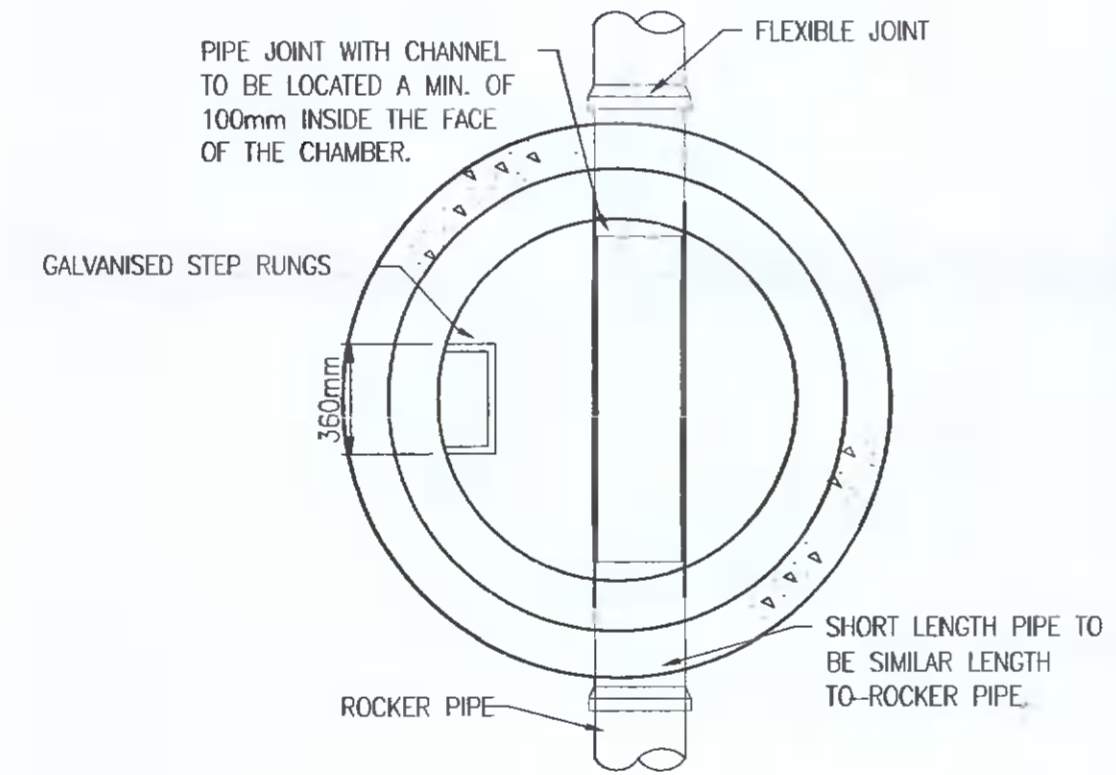
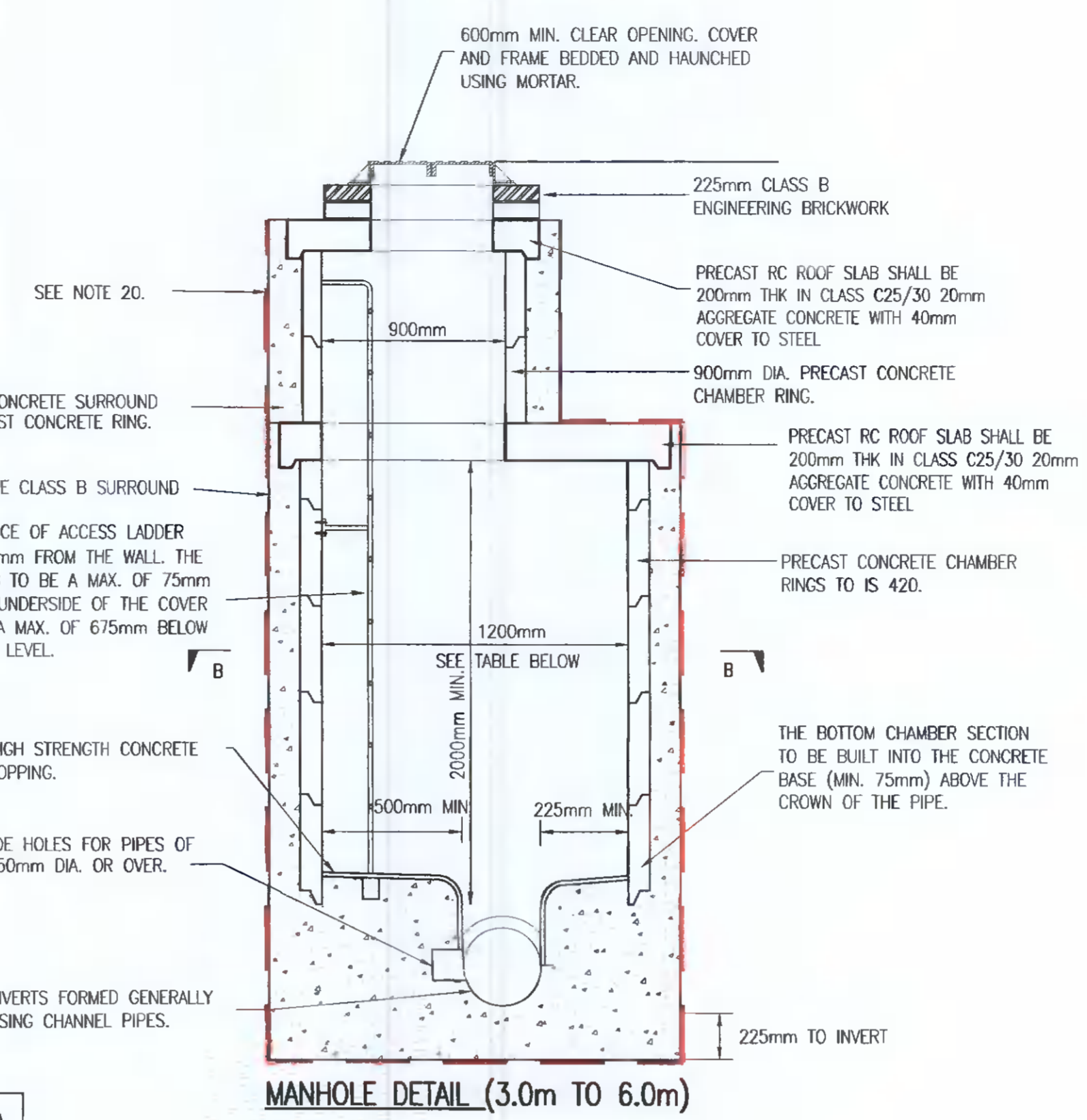
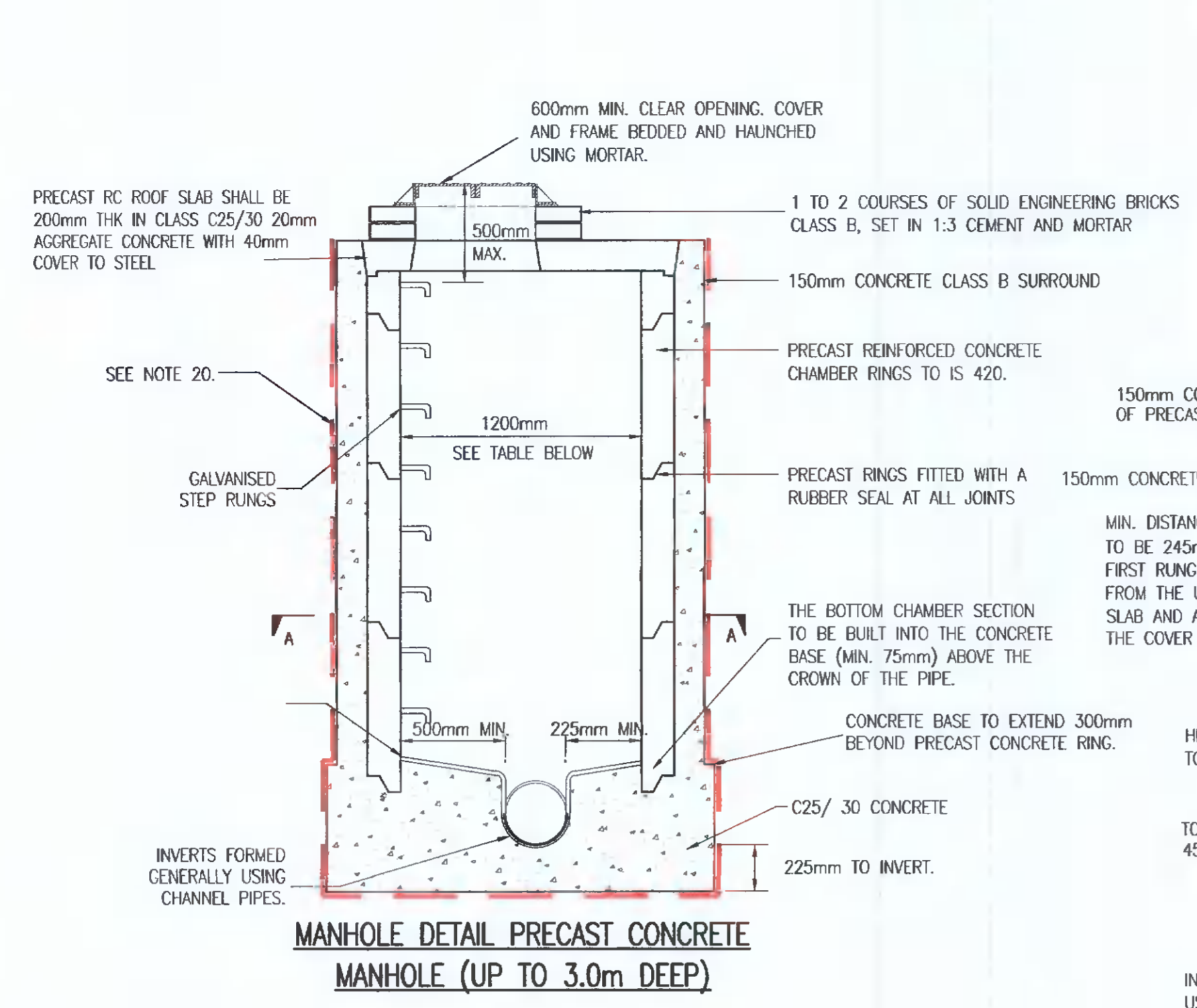
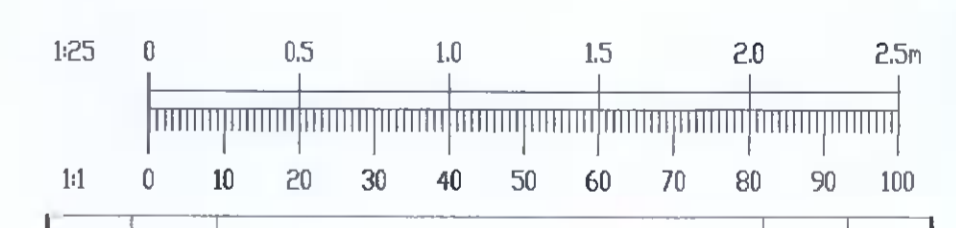
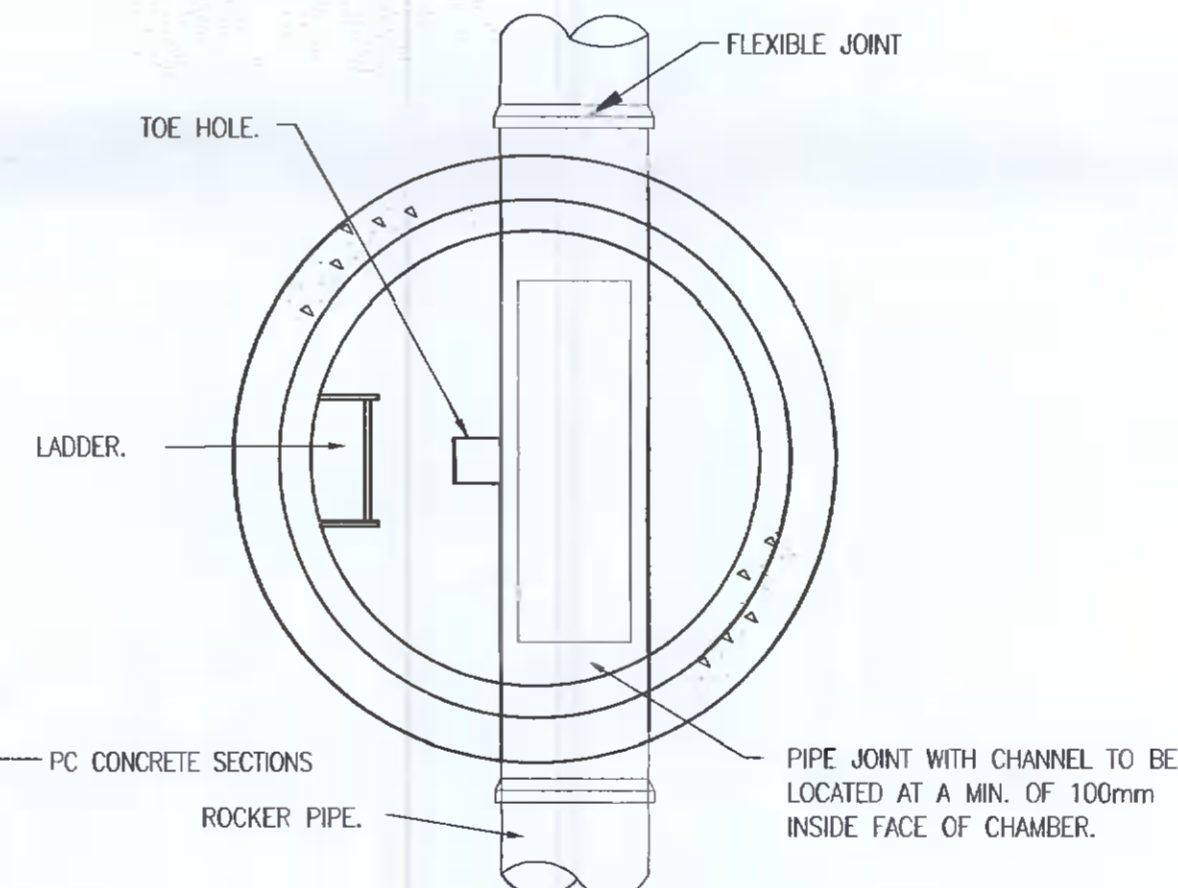


- NOTES:
- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL, ENGINEERING DRAWINGS AND THE GREATER DUBLIN REGIONAL CODE OF PRACTICE V6.0.
  - TYPE A GRANULAR FILL SHALL CONSIST OF WASHED FEA GRAVEL. ALL MATERIAL SHALL PASS A 18mm B.S. SIEVE TEST AND SHALL BE RETAINED BY A 4.75mm B.S. SIEVE TEST.
  - SELECTED FILL SHALL BE FREE FROM STONES GREATER THAN 25mm IN SIZE, BUILDERS RUBBLE, VEGETABLE MATTER AND LUMPS OF CLAY GREATER THAN 75mm IN SIZE AND SHALL BE COMPACTED IN 150mm LAYERS.
  - IN OPEN SPACES BACKFILL SHALL CONSIST OF SUITABLE SELECTED EXCAVATED MATERIAL. UNDER PAVED AREAS BACKFILL SHALL CONSIST OF CLASS B6R.
  - CONCRETE BED AND SURROUND SHALL BE USED ON ALL PIPES WHERE COVER TO THE SOFFIT OF THE PIPE IS LESS THAN 1.2m IN ROADS, FOOTPATHS AND GRASS MARGINS AND 0.9m IN OPEN SPACES AND FIELDS.
  - ALL CONCRETE FOR PIPE BEDDING, HAUNCHING AND SURROUNDS SHALL BE GRADE CL 20N/20mm.
  - ALL MANHOLES SHALL BE WATER TIGHT TO THE SATISFACTION OF THE LOCAL AUTHORITY/COUNCIL.
  - FORMWORK TO REINFORCED CONCRETE AND MASS CONCRETE SHALL BE CLASS F2.
  - CLASS U2 FINISH TO THE TOP OF SLABS. REINFORCEMENT TO SLABS TO ENGINEERS DETAILS.
  - 200mm THICK CL 30N/20mm MASS CONCRETE FOUNDATIONS. 225 THICK PRECAST R.C. ROOF SLAB IN CL 30N/20mm CONCRETE. COVER TO STEEL TO BE 40mm.
  - TOE HOLES OF 230mm MINIMUM DEPTH AND GALVANIZED STEEL SAFETY RAILINGS TO BE PROVIDED IN BENCHING OF SEWERS GREATER THAN 525mm DIAMETER AND DEPTH TO INVERT >3m FOR ACCESS TO INVERT.
  - A SAFETY CHAIN IS TO BE PROVIDED ON SEWER PIPES THAT EXCEED 450mm IN DIAMETER. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE (GRADE M16) NON CALIBRATED CHAIN, TYPE 1, COMPLYING WITH B.S.4942 PART 2 OR EQUIVALENT.
  - WHEN DEPTH OF MANHOLES TO INVERT IS GREATER THAN 3.0m LADDERS SHALL BE USED INSTEAD OF RINGS. FIXED LADDERS SHOULD MEET THE DIMENSIONAL REQUIREMENTS OF B.S.4211 OR EQUIVALENT EXCEPT THAT STRINGERS SHOULD NOT BE LESS THAN 65 x 12mm IN SECTION AND RINGS 25mm IN DIAMETER.
  - LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL.
  - ALL LADDERS, RINGS, HANDRAILS, SAFETY CHAIN, ETC. SHALL BE HOT DIPPED GALVANIZED TO B.S.729 OR EQUIVALENT.
  - ALL DRAINAGE WORKS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH SOUTH DUBLIN COUNTY COUNCIL REQUIREMENTS FOR TANKING IN CHARGE AND GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
  - PERTAINING TO Foul WATER DRAINAGE WORKS - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS. THE CODE OF PRACTICE AND STANDARD DETAILS ARE AVAILABLE TO DOWNLOAD FROM THE IRISH WATER WEB SITE AT [WWW.WATER.IE/CONNECTIONS/DEVELOPER-SERVICES/](http://WWW.WATER.IE/CONNECTIONS/DEVELOPER-SERVICES/) WHERE THE DETAILS CONTAINED ON THIS DRAWING DIFFER FROM THE IRISH WATER CODE OF PRACTICE OR STANDARD DETAILS THIS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. IRISH WATER STANDARDS WILL TAKE PRECEDENCE.
  - FOR DOWNSTREAM DEFENDER DETAILS REFER TO MANUFACTURER'S HYDRO INTERNATIONAL DESIGN DATA AND INSTALLATION DETAILS. MANUFACTURER'S DETAILS SUPERCEDE THIS DRAWING'S DETAILS.
  - ALL TRENCHES IN EXPOSED ROCK TO BE LINED WITH LIQUID BITUMEN SPRAY IMMEDIATELY AFTER EXPOSURE.



INLET DIA. (mm)	DROP DIA. (mm)
225	300
300	375
375	450
450	525
525	600
600	750
750	900



REV.	DATE	AMENDMENT	DRN	APPD
06/	04/22	ISSUED FOR PLANNING	MS	EC

STATUS **FOR PLANNING ONLY NOT FOR CONSTRUCTION**

**Waterman Moylan**  
Engineering Consultants

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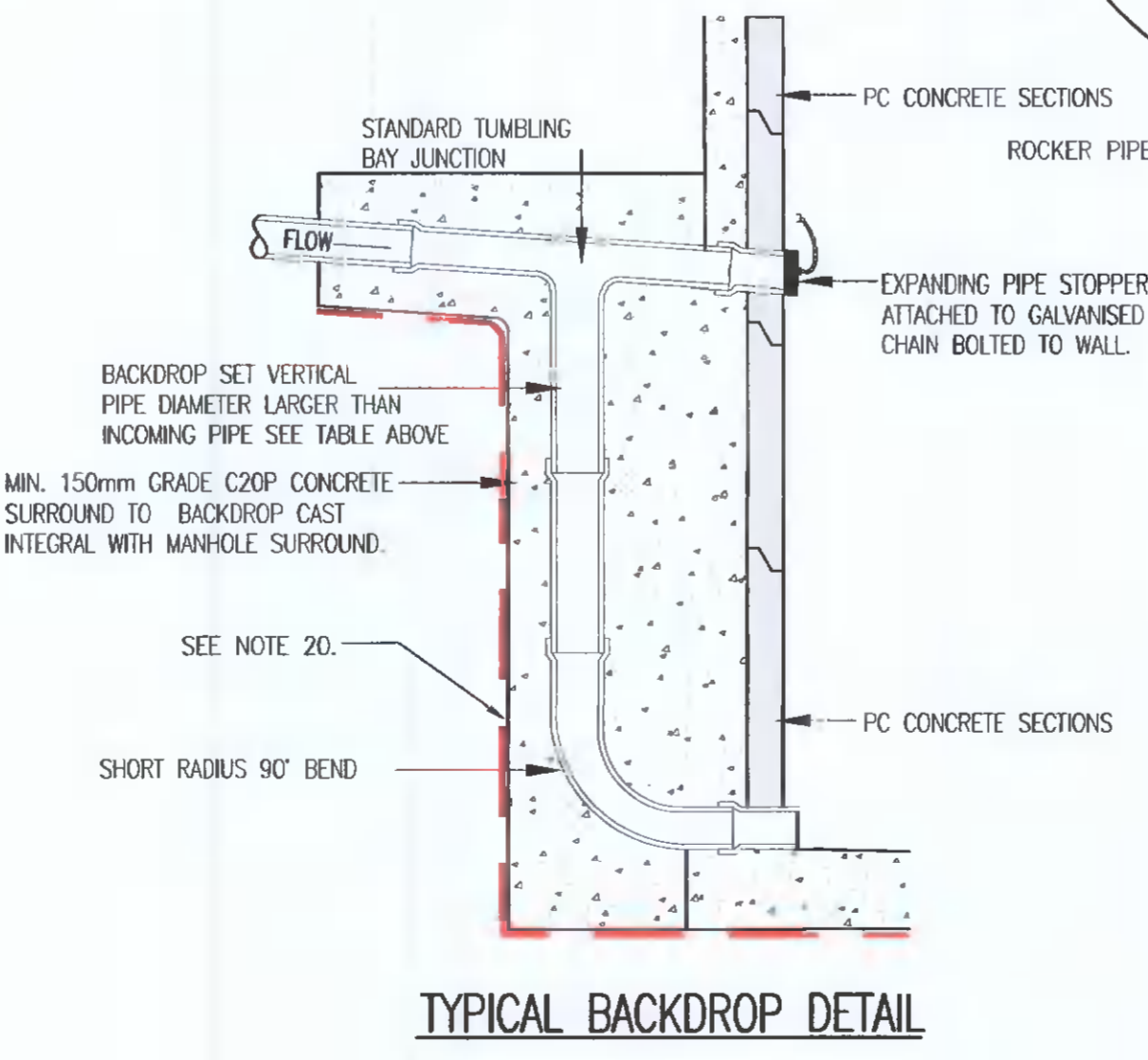
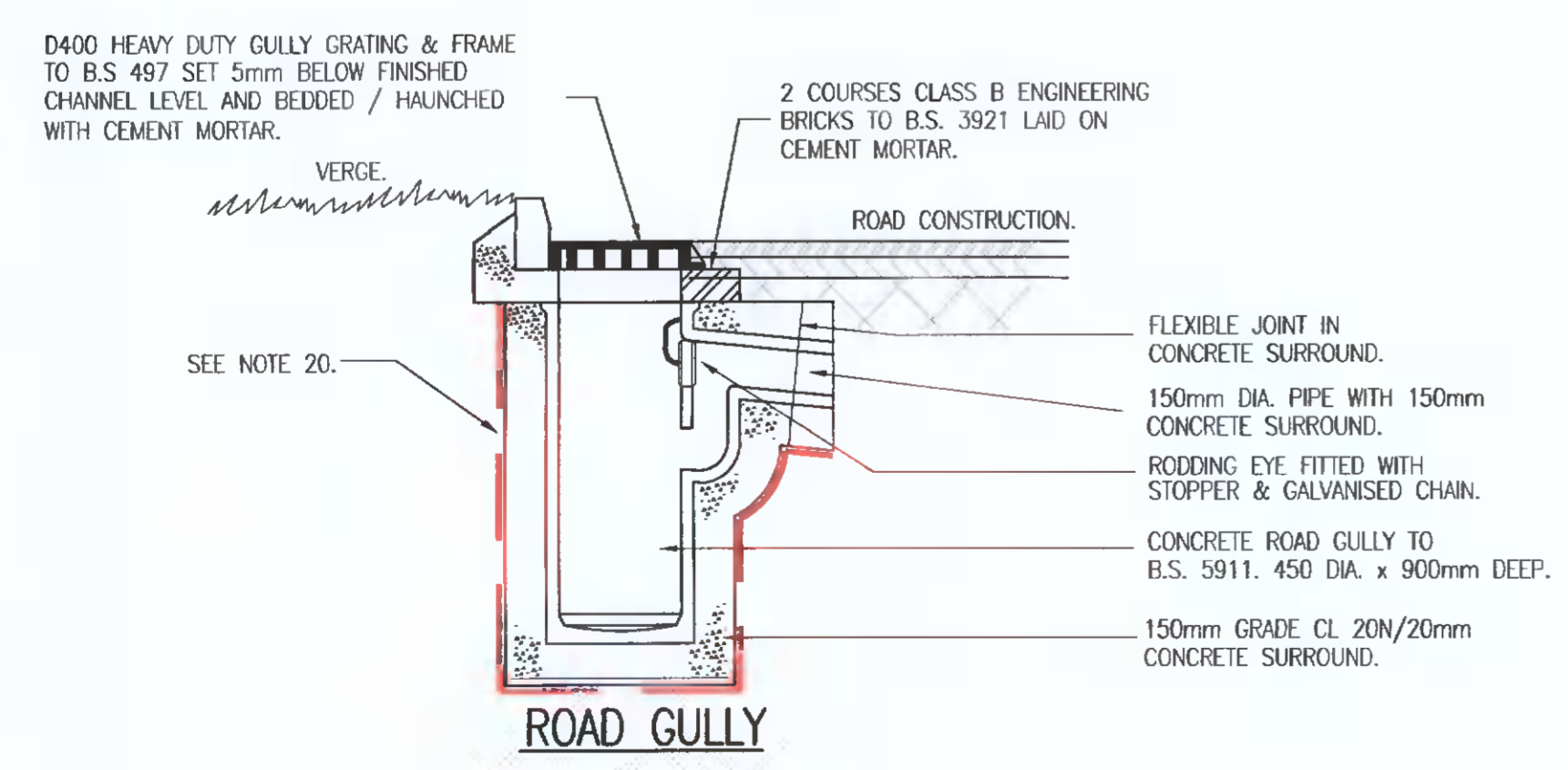
CLIENT **QUINTAIN DEVELOPMENTS IRELAND Ltd.**

ARCHITECT **MOLA ARCHITECTS**

PROJECT **TANDY'S LANE VILLAGE - Phase 2**

TITLE **DRAINAGE CONSTRUCTION DETAILS SHEET 1 OF 2**

DRAWN	DESIGNED	APPROVED	DATE
MS	SV	EC	APRIL 2022
SCALE	JOB NO.	DRG. NO.	REVISION
1:25 0A1	21-058	P230	-



PIPE DIAMETER	ROCKER PIPE LENGTH
150 - 600	0.6
600 - 750	1.0
750 >	SEEK GUIDANCE

DIAMETER OF LARGEST PIPE IN MANHOLE	PRECAST CONCRETE RING SIZE
LESS THAN 375mm	1200mm DIA
375mm TO 450mm	1350mm DIA
450mm TO 700mm	1500mm DIA
700mm TO 900mm	1800mm DIA
GREATER THAN 900mm	PIPE DIA + 900